

14 SDCS-ER-77-131

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6 SPECIAL DATA COLLECTION SYSTEM (SDCS)  
Tuamotu Archipelago Region, 19 February 1977.

9 Technical rept.

10 Michael S. Dawkins  
Alexandria Laboratories

15 F08606-78-C-4447  
✓ ARPA Order-2551

Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314

11 May 1978

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SDCS Event Report No. 131

Tuamotu Archipelago Region, 19 February 1977

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Latitude	Longitude	$m_b$	$M_s$
LASA	23:41:40.7	unreported	19.5S	128.9W	4.6	N/A

All SDCS stations were operational during this time period. The presence of a positive short-period signal at HN-ME is questionable. Data for NT-NV was taken from the back-up analog system due to memory problems with the digital system. Long-period data at stations recording such were negative.

LASA waveform data were recoverable from the SDAC/VELA Network detection processor, with the short-period showing a positive signal. NORSAR data were unrecoverable.

Scaling factors on plots are millimicrons at 1 HZ (not corrected for instrument response).

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## STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
OB2NV	Nevada Test Site	37 13 31.0 N 116 03 28.0 W		18300	N/A
NT-NV	Nevada Test Site	31 16 33.0 N 116 25 06.0 W		18300	N/A
NT2NV	Nevada Test Site	37 15 16.0 N 116 18 13.0 W		18300	N/A
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H

PREDA -- TRAVEL TIME PREDICTIONS --

19 FEB INPUT FOR EVENT 19 FEB 77  
 23:30:00.0 21.99°S 139.000W OKM.

STA.		TIME	SURF( CKM.)	TRAV. TIME	DEG.	DIST KM.	EVT-STA	STI-EVT
NT-NV	P	23 40 26.1		10:26.1	62.68	6969.9648	20.167	203.647
NT2NV	P	23 40 26.2		10:26.2	62.70	6972.4062	20.286	203.782
OB2NV	P	23 40 26.5		10:26.5	62.75	6977.7383	20.487	204.011
OB3NV	P	23 40 26.5		10:26.5	62.76	6978.6172	20.486	204.013
LAC	P	23 41 39.9		11:39.9	74.51	8285.6016	22.751	211.423
EK-ON	P	23 42 25.3		12:25.3	82.78	9204.6641	27.023	221.702
HN-MF	P	23 43 16.2		13:16.2	93.32	10376.8125	41.173	241.527
NAD	P	23 49 21.3		19:21.3	135.88	15108.6328	20.712	317.943
HFS	P	23 49 24.0		19:24.0	137.32	15269.4922	19.796	321.097

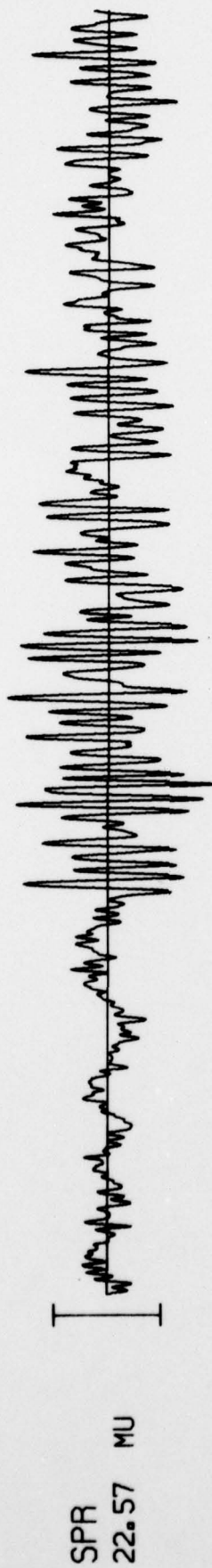
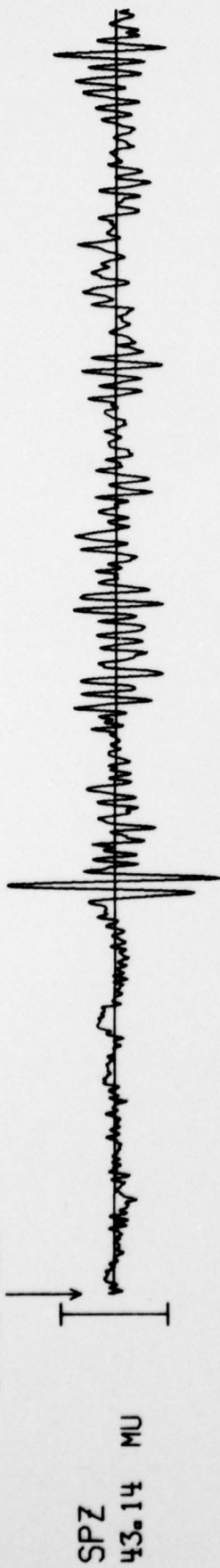
67 HEREIN TRAVEL TIME TABLES

SURF  
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 0 . 1  
 0 . 0 0  
 0 . 0 0  
 0 . 0 0  
 0 . 0

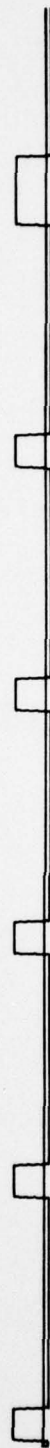


NT-NV 19 FEB 77

23:40:10.0



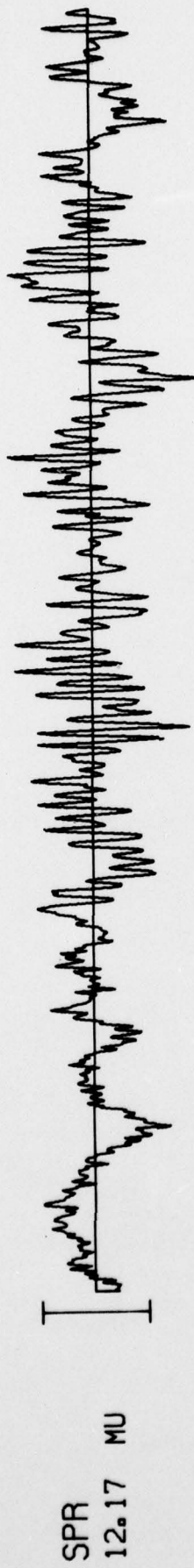
TIME



10 SEC

NT2NV 19 FEB 77

23:40:10.0

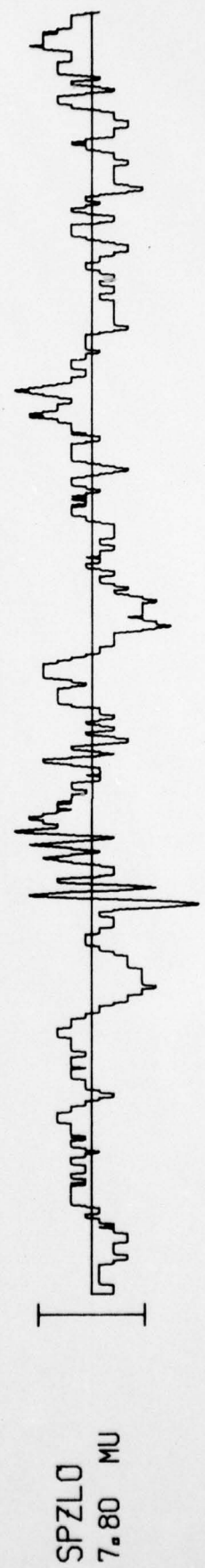
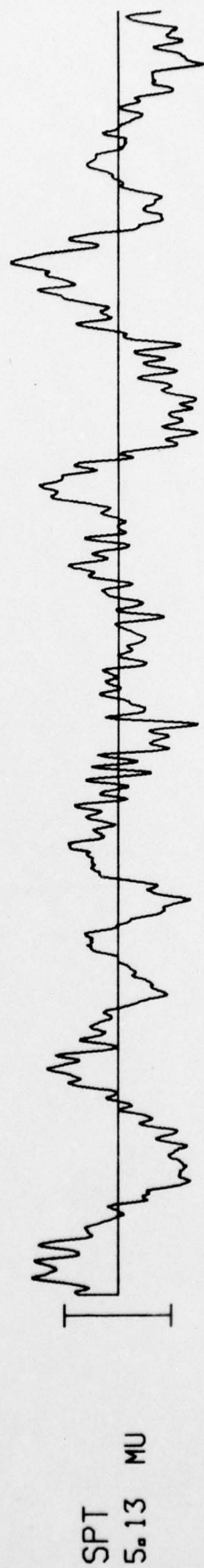
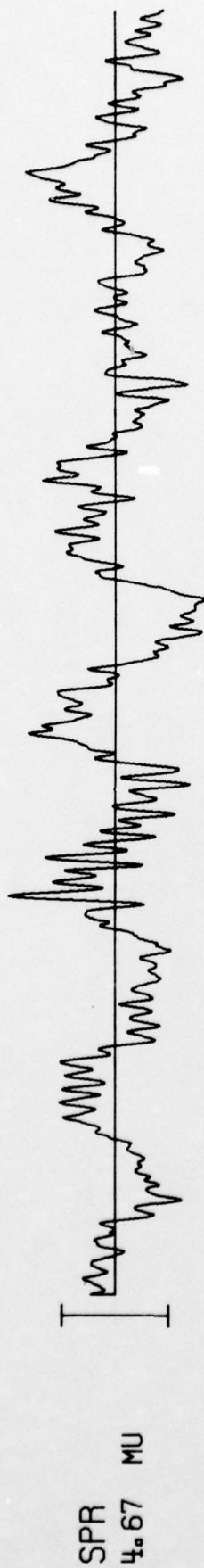
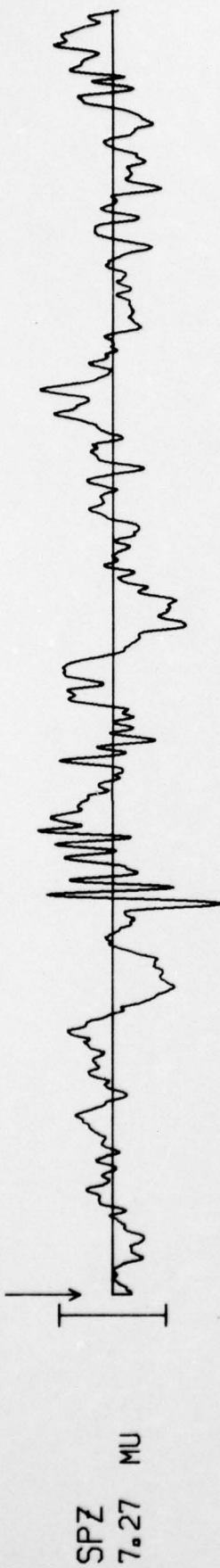


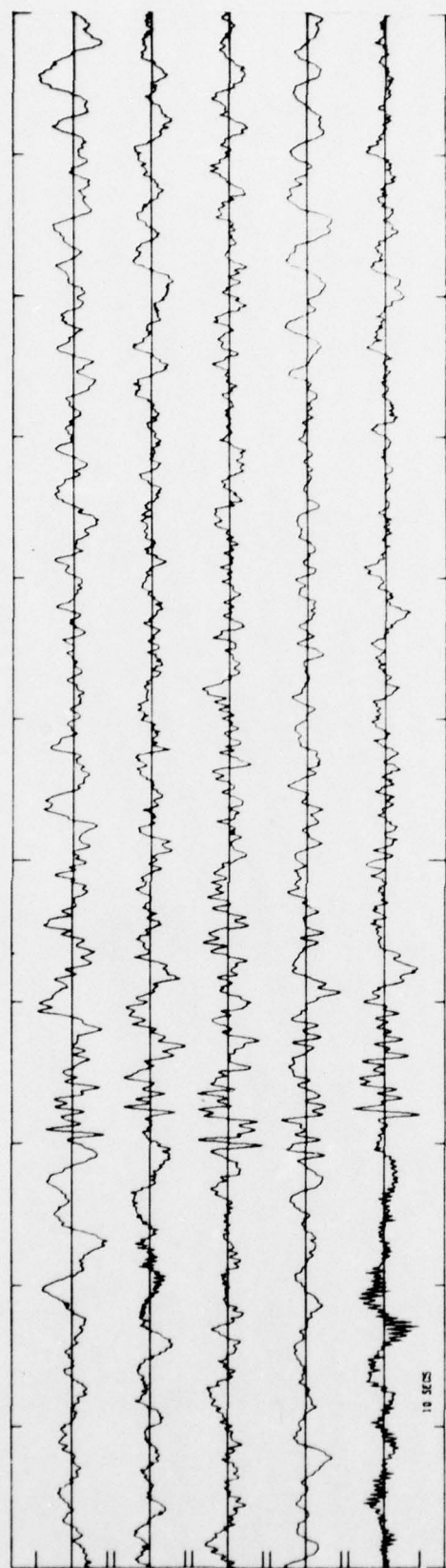
10 SEC



0B2NV 19 FEB 77

23:40:10.0





1977  
58/23/41/10.2

LASA SHORT

PERIOD SUBARRAYS

19 FEB 77

LA010SHQ01U02  
16.9 sec/UNIT  
(LA # 11)

LA010SHQ01U02  
16.9 sec/UNIT  
(LA # 18)

LA010SHQ02U02  
20.0 sec/UNIT  
(LA # 11)

LA010SHQ03U02  
20.0 sec/UNIT  
(LA # 12)

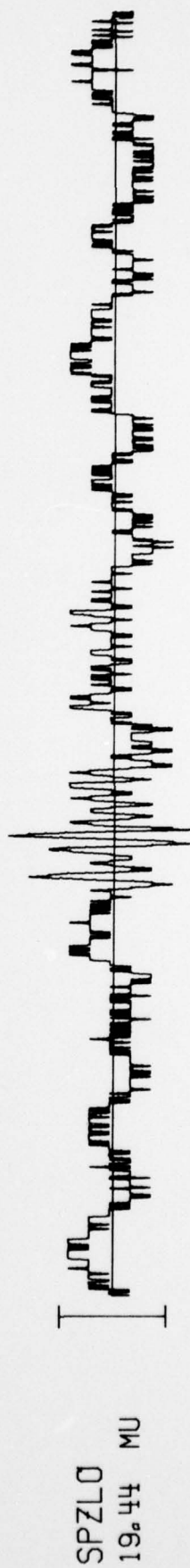
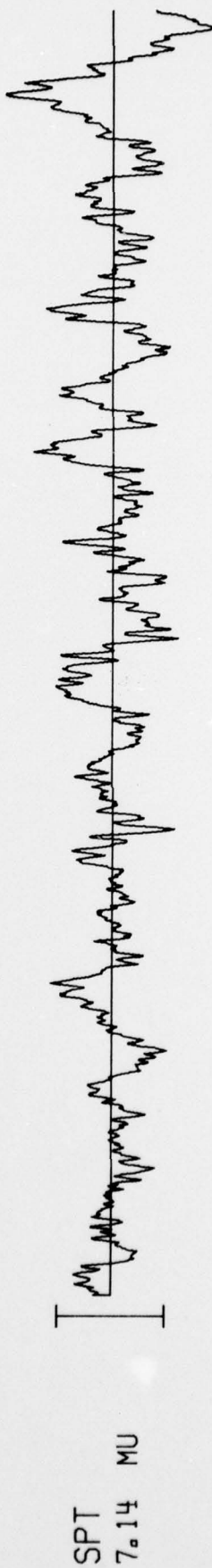
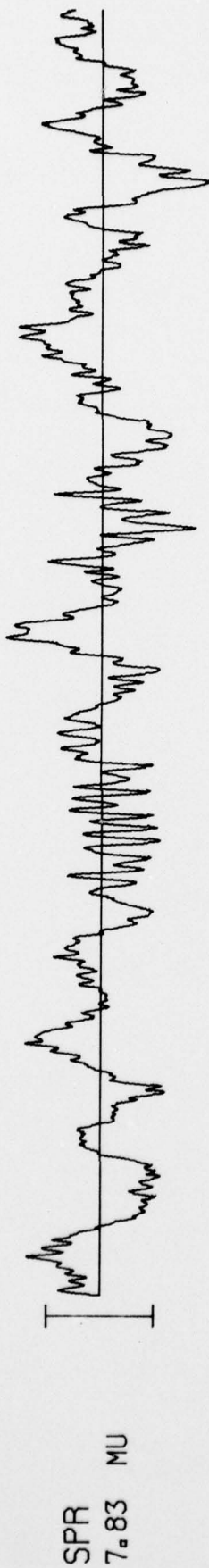
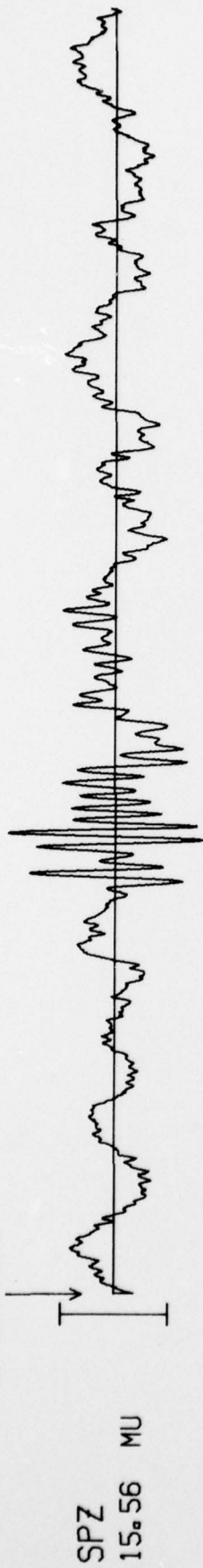
LA010SHQ04U02  
20.0 sec/UNIT  
(LA # 13)



TIME 5.0 SEC/UNIT

RK-QN 19 FEB 77

23:42:05.0



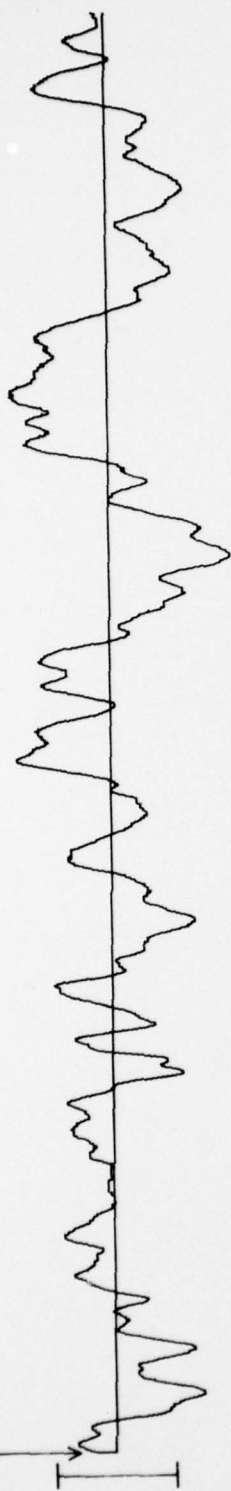
10 SEC



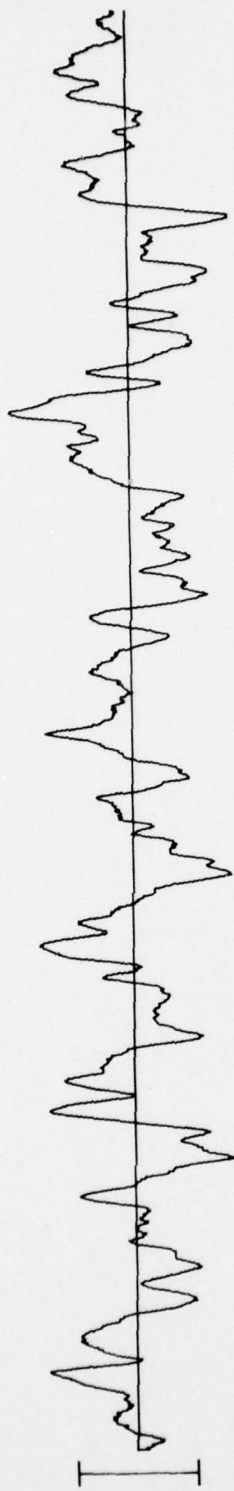
HN-ME 19 FEB 77

23:43:00.0

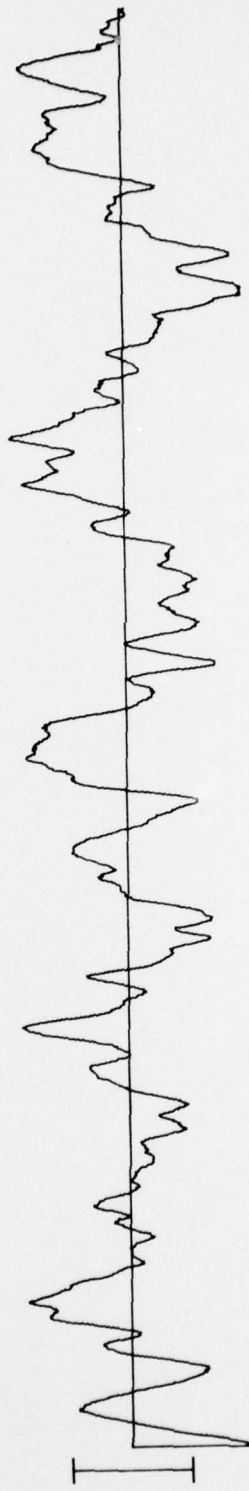
SPZ  
41.36 MU



SPR  
24.87 MU



SPT  
30.84 MU



10 SEC